SEQUENCE LISTING

<110> O'Brien, Timothy J.
Tanimoto, Hirotoshi

<120> TADG-15: An Extracellular Serine Protease Overexpressed in Carcinomas

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<151> 2000-09-01

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<213> *Homo sapiens*

<220>

<223> TADG-15

<400> 2

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            20                  25                  30
Gly Leu Glu Glu Gly Val Glu Phe Leu Pro Val Asn Asn Val Lys
        35                  40                  45
Lys Val Glu Lys His Gly Pro Gly Arg Trp Val Val Leu Ala Ala
    50                  55                  60
Val Leu Ile Gly Leu Leu Leu Val Leu Leu Gly Ile Gly Phe Leu
65                  70                  75
Val Trp His Leu Gln Tyr Arg Asp Val Arg Val Gln Lys Val Phe
                80                  85                  90
```

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Asn Gly Tyr Met Arg Ile Thr Asn Glu Asn Phe Val Asp Ala Tyr
                95                  100                 105
Glu Asn Ser Asn Ser Thr Glu Phe Val Ser Leu Ala Ser Lys Val
            110                 115                 120
Lys Asp Ala Leu Lys Leu Leu Tyr Ser Gly Val Pro Phe Leu Gly
        125                 130                 135
Pro Tyr His Lys Glu Ser Ala Val Thr Ala Phe Ser Glu Gly Ser
    140                 145                 150
Val Ile Ala Tyr Tyr Trp Ser Glu Phe Ser Ile Pro Gln His Leu
155                 160                 165
Val Glu Glu Ala Glu Arg Val Met Ala Glu Glu Arg Val Val Met
            170                 175                 180
Leu Pro Pro Arg Ala Arg Ser Leu Lys Ser Phe Val Val Thr Ser
        185                 190                 195
Val Val Ala Phe Pro Thr Asp Ser Lys Thr Val Gln Arg Thr Gln
    200                 205                 210
Asp Asn Ser Cys Ser Phe Gly Leu His Ala Arg Gly Val Glu Leu
215                 220                 225
Met Arg Phe Thr Thr Pro Gly Phe Pro Asp Ser Pro Tyr Pro Ala
            230                 235                 240
His Ala Arg Cys Gln Trp Ala Leu Arg Gly Asp Ala Asp Ser Val
        245                 250                 255
Leu Ser Leu Thr Phe Arg Ser Phe Asp Leu Ala Ser Cys Asp Glu
    260                 265                 270
Arg Gly Ser Asp Leu Val Thr Val Tyr Asn Thr Leu Ser Pro Met
275                 280                 285
Glu Pro His Ala Leu Val Gln Leu Cys Gly Thr Tyr Pro Pro Ser
            290                 295                 300
Tyr Asn Leu Thr Phe His Ser Ser Gln Asn Val Leu Leu Ile Thr
        305                 310                 315
Leu Ile Thr Asn Thr Glu Arg Arg His Pro Gly Phe Glu Ala Thr
    320                 325                 330
Phe Phe Gln Leu Pro Arg Met Ser Ser Cys Gly Gly Arg Leu Arg
335                 340                 345
Lys Ala Gln Gly Thr Phe Asn Ser Pro Tyr Tyr Pro Gly His Tyr
            350                 355                 360
Pro Pro Asn Ile Asp Cys Thr Trp Asn Ile Glu Val Pro Asn Asn
        365                 370                 375
Gln His Val Lys Val Ser Phe Lys Phe Phe Tyr Leu Leu Glu Pro
    380                 385                 390
Gly Val Pro Ala Gly Thr Cys Pro Lys Asp Tyr Val Glu Ile Asn
395                 400                 405
Gly Glu Lys Tyr Cys Gly Glu Arg Ser Gln Phe Val Val Thr Ser
            410                 415                 420
Asn Ser Asn Lys Ile Thr Val Arg Phe His Ser Asp Gln Ser Tyr
        425                 430                 435
Thr Asp Thr Gly Phe Leu Ala Glu Tyr Leu Ser Tyr Asp Ser Ser
    440                 445                 450
Asp Pro Cys Pro Gly Gln Phe Thr Cys Arg Thr Gly Arg Cys Ile
455                 460                 465
Arg Lys Glu Leu Arg Cys Asp Gly Trp Ala Asp Cys Thr Asp His
            470                 475                 480
```

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Ser Asp Glu Leu Asn Cys Ser Cys Asp Ala Gly His Gln Phe Thr
                485                 490                 495
Cys Lys Asn Lys Phe Cys Lys Pro Leu Phe Trp Val Cys Asp Ser
            500                 505                 510
Val Asn Asp Cys Gly Asp Asn Ser Asp Glu Gln Gly Cys Ser Cys
        515                 520                 525
Pro Ala Gln Thr Phe Arg Cys Ser Asn Gly Lys Cys Leu Ser Lys
    530                 535                 540
Ser Gln Gln Cys Asn Gly Lys Asp Asp Cys Gly Asp Gly Ser Asp
545                 550                 555
Glu Ala Ser Cys Pro Lys Val Asn Val Val Thr Cys Thr Lys His
            560                 565                 570
Thr Tyr Arg Cys Leu Asn Gly Leu Cys Leu Ser Lys Gly Asn Pro
        575                 580                 585
Glu Cys Asp Gly Lys Glu Asp Cys Ser Asp Gly Ser Asp Glu Lys
    590                 595                 600
Asp Cys Asp Cys Gly Leu Arg Ser Phe Thr Arg Gln Ala Arg Val
605                 610                 615
Val Gly Gly Thr Asp Ala Asp Glu Gly Glu Trp Pro Trp Gln Val
            620                 625                 630
Ser Leu His Ala Leu Gly Gln Gly His Ile Cys Gly Ala Ser Leu
        635                 640                 645
Ile Ser Pro Asn Trp Leu Val Ser Ala Ala His Cys Tyr Ile Asp
    650                 655                 660
Asp Arg Gly Phe Arg Tyr Ser Asp Pro Thr Gln Trp Thr Ala Phe
665                 670                 675
Leu Gly Leu His Asp Gln Ser Gln Arg Ser Ala Pro Gly Val Gln
            680                 685                 690
Glu Arg Arg Leu Lys Arg Ile Ile Ser His Pro Phe Phe Asn Asp
        695                 700                 705
Phe Thr Phe Asp Tyr Asp Ile Ala Leu Leu Glu Leu Glu Lys Pro
    710                 715                 720
Ala Glu Tyr Ser Ser Met Val Arg Pro Ile Cys Leu Pro Asp Ala
725                 730                 735
Ser His Val Phe Pro Ala Gly Lys Ala Ile Trp Val Thr Gly Trp
            740                 745                 750
Gly His Thr Gln Tyr Gly Gly Thr Gly Ala Leu Ile Leu Gln Lys
        755                 760                 765
Gly Glu Ile Arg Val Ile Asn Gln Thr Thr Cys Glu Asn Leu Leu
    770                 775                 780
Pro Gln Gln Ile Thr Pro Arg Met Met Cys Val Gly Phe Leu Ser
785                 790                 795
Gly Gly Val Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu Ser
            800                 805                 810
Ser Val Glu Ala Asp Gly Arg Ile Phe Gln Ala Gly Val Val Ser
        815                 820                 825
Trp Gly Asp Gly Cys Ala Gln Arg Asn Lys Pro Gly Val Tyr Thr
    830                 835                 840
Arg Leu Pro Leu Phe Arg Asp Trp Ile Lys Glu Asn Thr Gly Val
845                 850                 855
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<210> 3

<211> 256
<212> PRT
<213> *Homo sapiens*

<220>

<223> Hepsin

<400> 3

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Arg Ile Val Gly Gly Arg Asp Thr Ser Leu Gly Arg Trp Pro Trp
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Gln Val Ser Leu Arg Tyr Asp Gly Ala His Leu Cys Gly Gly Ser
            20                  25                  30
Leu Leu Ser Gly Asp Trp Val Leu Thr Ala Ala His Cys Phe Pro
        35                  40                  45
Glu Arg Asn Arg Val Leu Ser Arg Trp Arg Val Phe Ala Gly Ala
    50                  55                  60
Val Ala Gln Ala Ser Pro His Gly Leu Gln Leu Gly Val Gln Ala
65                  70                  75
Val Val Tyr His Gly Gly Tyr Leu Pro Phe Arg Asp Pro Asn Ser
                80                  85                  90
Glu Glu Asn Ser Asn Asp Ile Ala Leu Val His Leu Ser Ser Pro
            95                  100                 105
Leu Pro Leu Thr Glu Tyr Ile Gln Pro Val Cys Leu Pro Ala Ala
        110                 115                 120
Gly Gln Ala Leu Val Asp Gly Lys Ile Cys Thr Val Thr Gly Trp
    125                 130                 135
Gly Asn Thr Gln Tyr Tyr Gly Gln Gln Ala Gly Val Leu Gln Glu
140                 145                 150
Ala Arg Val Pro Ile Ile Ser Asn Asp Val Cys Asn Gly Ala Asp
155                 160                 165
Phe Tyr Gly Asn Gln Ile Lys Pro Lys Met Phe Cys Ala Gly Tyr
                170                 175                 180
Pro Glu Gly Gly Ile Asp Ala Cys Gln Gly Asp Ser Gly Gly Pro
            185                 190                 195
Phe Val Cys Glu Asp Ser Ile Ser Arg Thr Pro Arg Trp Arg Leu
        200                 205                 210
Cys Gly Ile Val Ser Trp Gly Thr Gly Cys Ala Leu Ala Gln Lys
    215                 220                 225
Pro Gly Val Tyr Thr Lys Val Ser Asp Phe Arg Glu Trp Ile Phe
230                 235                 240
Gln Ala Ile Lys Thr His Ser Glu Ala Ser Gly Met Val Thr Gln
245                 250                 255
Leu
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<210> 4
<211> 225
<212> PRT
<213> *Homo sapiens*

<220>

<223> SCCE

<400> 4

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Lys Ile Ile Asp Gly Ala Pro Cys Ala Arg Gly Ser His Pro Trp
                5                  10                  15
Gln Val Ala Leu Leu Ser Gly Asn Gln Leu His Cys Gly Gly Val
            20                  25                  30
Leu Val Asn Glu Arg Trp Val Leu Thr Ala Ala His Cys Lys Met
        35                  40                  45
Asn Glu Tyr Thr Val His Leu Gly Ser Asp Thr Leu Gly Asp Arg
    50                  55                  60
Arg Ala Gln Arg Ile Lys Ala Ser Lys Ser Phe Arg His Pro Gly
65                  70                  75
Tyr Ser Thr Gln Thr His Val Asn Asp Leu Met Leu Val Lys Leu
                80                  85                  90
Asn Ser Gln Ala Arg Leu Ser Ser Met Val Lys Lys Val Arg Leu
            95                  100                 105
Pro Ser Arg Cys Glu Pro Pro Gly Thr Thr Cys Thr Val Ser Gly
        110                 115                 120
Trp Gly Thr Thr Thr Ser Pro Asp Val Thr Phe Pro Ser Asp Leu
    125                 130                 135
Met Cys Val Asp Val Lys Leu Ile Ser Pro Gln Asp Cys Thr Lys
    140                 145                 150
Val Tyr Lys Asp Leu Leu Glu Asn Ser Met Leu Cys Ala Gly Ile
155                 160                 165
Pro Asp Ser Lys Lys Asn Ala Cys Asn Gly Asp Ser Gly Gly Pro
                170                 175                 180
Leu Val Cys Arg Gly Thr Leu Gln Gly Leu Val Ser Trp Gly Thr
            185                 190                 195
Phe Pro Cys Gly Gln Pro Asn Asp Pro Gly Val Tyr Thr Gln Val
        200                 205                 210
Cys Lys Phe Thr Lys Trp Ile Asn Asp Thr Met Lys Lys His Arg
    215                 220                 225
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<210> 5
<211> 225
<212> PRT
<213> *Homo sapiens*

<220>

<223> Trypsin

<400> 5

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Lys Ile Val Gly Gly Tyr Asn Cys Glu Glu Asn Ser Val Pro Tyr
                5                  10                  15
Gln Val Ser Leu Asn Ser Gly Tyr His Phe Cys Gly Gly Ser Leu
            20                  25                  30
Ile Asn Glu Gln Trp Val Val Ser Ala Gly His Cys Tyr Lys Ser
        35                  40                  45
Arg Ile Gln Val Arg Leu Gly Glu His Asn Ile Glu Val Leu Glu
    50                  55                  60
```

```
Gly Asn Glu Gln Phe Ile Asn Ala Ala Lys Ile Ile Arg His Pro
                65                  70                  75
Gln Tyr Asp Arg Lys Thr Leu Asn Asn Asp Ile Met Leu Ile Lys
                80                  85                  90
Leu Ser Ser Arg Ala Val Ile Asn Ala Arg Val Ser Thr Ile Ser
                95                 100                 105
Leu Pro Thr Ala Pro Pro Ala Thr Gly Thr Lys Cys Leu Ile Ser
               110                 115                 120
Gly Trp Gly Asn Thr Ala Ser Ser Gly Ala Asp Tyr Pro Asp Glu
               125                 130                 135
Leu Gln Cys Leu Asp Ala Pro Val Leu Ser Gln Ala Lys Cys Glu
               140                 145                 150
Ala Ser Tyr Pro Gly Lys Ile Thr Ser Asn Met Phe Cys Val Gly
               155                 160                 165
Phe Leu Glu Gly Gly Lys Asp Ser Cys Gln Gly Asp Ser Gly Gly
               170                 175                 180
Pro Val Val Cys Asn Gly Gln Leu Gln Gly Val Val Ser Trp Gly
               185                 190                 195
Asp Gly Cys Ala Gln Lys Asn Lys Pro Gly Val Tyr Thr Lys Val
               200                 205                 210
Tyr Asn Tyr Val Lys Trp Ile Lys Asn Thr Ile Ala Ala Asn Ser
               215                 220                 225
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<210> 6
<211> 231
<212> PRT
<213> *Homo sapiens*

<220>

<223> Chymotrypsin

<400> 6

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               20                  25                  30
Ser Leu Ile Ser Glu Asp Trp Val Val Thr Ala Ala His Cys Gly
               35                  40                  45
Val Arg Thr Ser Asp Val Val Val Ala Gly Glu Phe Asp Gln Gly
               50                  55                  60
Ser Asp Glu Glu Asn Ile Gln Val Leu Lys Ile Ala Lys Val Phe
               65                  70                  75
Lys Asn Pro Lys Phe Ser Ile Leu Thr Val Asn Asn Asp Ile Thr
               80                  85                  90
Leu Leu Lys Leu Ala Thr Pro Ala Arg Phe Ser Gln Thr Val Ser
               95                 100                 105
Ala Val Cys Leu Pro Ser Ala Asp Asp Asp Phe Pro Ala Gly Thr
              110                 115                 120
Leu Cys Ala Thr Thr Gly Trp Gly Lys Thr Lys Tyr Asn Ala Asn
              125                 130                 135
```

```
Lys Thr Pro Asp Lys Leu Gln Gln Ala Ala Leu Pro Leu Leu Ser
                  140                 145                 150
Asn Ala Glu Cys Lys Lys Ser Trp Gly Arg Arg Ile Thr Asp Val
                  155                 160                 165
Met Ile Cys Ala Gly Ala Ser Gly Val Ser Ser Cys Met Gly Asp
                  170                 175                 180
Ser Gly Gly Pro Leu Val Cys Gln Lys Asp Gly Ala Trp Thr Leu
                  185                 190                 195
Val Gly Ile Val Ser Trp Gly Ser Asp Thr Cys Ser Thr Ser Ser
                  200                 205                 210
Pro Gly Val Tyr Ala Arg Val Thr Lys Leu Ile Pro Trp Val Gln
                  215                 220                 225
Lys Ile Leu Ala Ala Asn
                  230
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<210> 7
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<212> PRT
<213> *Homo sapiens*

<220>

<223> Factor 7

<400> 7

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                  20                  25                  30
Leu Ile Asn Thr Ile Trp Val Val Ser Ala Ala His Cys Phe Asp
                  35                  40                  45
Lys Ile Lys Asn Trp Arg Asn Leu Ile Ala Val Leu Gly Glu His
                  50                  55                  60
Asp Leu Ser Glu His Asp Gly Asp Glu Gln Ser Arg Arg Val Ala
                  65                  70                  75
Gln Val Ile Ile Pro Ser Thr Tyr Val Pro Gly Thr Thr Asn His
                  80                  85                  90
Asp Ile Ala Leu Leu Arg Leu His Gln Pro Val Val Leu Thr Asp
                  95                  100                 105
His Val Val Pro Leu Cys Leu Pro Glu Arg Thr Phe Ser Glu Arg
                  110                 115                 120
Thr Leu Ala Phe Val Arg Phe Ser Leu Val Ser Gly Trp Gly Gln
                  125                 130                 135
Leu Leu Asp Arg Gly Ala Thr Ala Leu Glu Leu Met Val Leu Asn
                  140                 145                 150
Val Pro Arg Leu Met Thr Gln Asp Cys Leu Gln Gln Ser Arg Lys
                  155                 160                 165
Val Gly Asp Ser Pro Asn Ile Thr Glu Tyr Met Phe Cys Ala Gly
                  170                 175                 180
Tyr Ser Asp Gly Ser Lys Asp Ser Cys Lys Gly Asp Ser Gly Gly
                  185                 190                 195
```

```
Pro His Ala Thr His Tyr Arg Gly Thr Trp Tyr Leu Thr Gly Ile
                200                 205                 210
Val Ser Trp Gly Gln Gly Cys Ala Thr Val Gly His Phe Gly Val
                215                 220                 225
Tyr Thr Arg Val Ser Gln Tyr Ile Glu Trp Leu Gln Lys Leu Met
                230                 235                 240
Arg Ser Glu Pro Arg Pro Gly Val Leu Leu Arg Ala Pro Phe Pro
                245                 250                 255
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<210> 8
<211> 253
<212> PRT
<213> *Homo sapiens*

<220>

<223> Tissue plasminogen activator

<400> 8

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Arg Ile Lys Gly Gly Leu Phe Ala Asp Ile Ala Ser His Pro Trp
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Gln Ala Ala Ile Phe Ala Lys His Arg Arg Ser Pro Gly Glu Arg
                20                  25                  30
Phe Leu Cys Gly Gly Ile Leu Ile Ser Ser Cys Trp Ile Leu Ser
                35                  40                  45
Ala Ala His Cys Phe Gln Glu Arg Phe Pro Pro His His Leu Thr
                50                  55                  60
Val Ile Leu Gly Arg Thr Tyr Arg Val Val Pro Gly Glu Glu Glu
                65                  70                  75
Gln Lys Phe Glu Val Glu Lys Tyr Ile Val His Lys Glu Phe Asp
                80                  85                  90
Asp Asp Thr Tyr Asp Asn Asp Ile Ala Leu Leu Gln Leu Lys Ser
                95                  100                 105
Asp Ser Ser Arg Cys Ala Gln Glu Ser Ser Val Val Arg Thr Val
                110                 115                 120
Cys Leu Pro Pro Ala Asp Leu Gln Leu Pro Asp Trp Thr Glu Cys
                125                 130                 135
Glu Leu Ser Gly Tyr Gly Lys His Glu Ala Leu Ser Pro Phe Tyr
                140                 145                 150
Ser Glu Arg Leu Lys Glu Ala His Val Arg Leu Tyr Pro Ser Ser
                155                 160                 165
Arg Cys Thr Ser Gln His Leu Leu Asn Arg Thr Val Thr Asp Asn
                170                 175                 180
Met Leu Cys Ala Gly Asp Thr Arg Ser Gly Gly Pro Gln Ala Asn
                185                 190                 195
Leu His Asp Ala Cys Gln Gly Asp Ser Gly Gly Pro Leu Val Cys
                200                 205                 210
Leu Asn Asp Gly Arg Met Thr Leu Val Gly Ile Ile Ser Trp Gly
                215                 220                 225
Leu Gly Cys Gly Gln Lys Asp Val Pro Gly Val Tyr Thr Lys Val
                230                 235                 240
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Thr Asn Tyr Leu Asp Trp Ile Arg Asp Asn Met Arg Pro
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<213> *Homo sapiens*

<220>

<223> SNC-19; GeneBank Accession No. #U20428

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<213> *Mus musculus*

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<223> Epithin

<400> 10

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Gly Phe Glu Glu Gly Val Glu Phe Leu Pro Ala Asn Asn Ala Lys
        35                  40                  45
Lys Val Glu Lys Arg Gly Pro Arg Arg Trp Val Val Leu Val Ala
    50                  55                  60
Val Leu Phe Ser Phe Leu Leu Leu Ser Leu Met Ala Gly Leu Leu
65                  70                  75
Val Trp His Phe His Tyr Arg Asn Val Arg Val Gln Lys Val Phe
                80                  85                  90
Asn Gly His Leu Arg Ile Thr Asn Glu Ile Phe Leu Asp Ala Tyr
            95                  100                 105
Glu Asn Ser Thr Ser Thr Glu Phe Ile Ser Leu Ala Ser Gln Val
        110                 115                 120
Lys Glu Ala Leu Lys Leu Leu Tyr Asn Glu Val Pro Val Leu Gly
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Pro Tyr His Lys Lys Ser Ala Val Thr Ala Phe Ser Glu Gly Ser
140                 145                 150
Val Ile Ala Tyr Tyr Trp Ser Glu Phe Ser Ile Pro Pro His Leu
155                 160                 165
Ala Glu Glu Val Asp Arg Ala Met Ala Val Glu Arg Val Val Thr
            170                 175                 180
Leu Pro Pro Arg Ala Arg Ala Leu Lys Ser Phe Val Leu Thr Ser
        185                 190                 195
Val Val Ala Phe Pro Ile Asp Pro Arg Met Leu Gln Arg Thr Gln
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Asp Asn Ser Cys Ser Phe Ala Leu His Ala His Gly Ala Ala Val
215                 220                 225
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                245                 250                 255
Leu Ser Leu Thr Phe Arg Ser Phe Asp Val Ala Pro Cys Asp Glu
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His Gly Ser Asp Leu Val Thr Val Tyr Asp Ser Leu Ser Pro Met
                275                 280                 285
Glu Pro His Ala Val Val Arg Leu Cys Gly Thr Phe Ser Pro Ser
                290                 295                 300
Tyr Asn Leu Thr Phe Leu Ser Ser Gln Asn Val Phe Leu Val Thr
                305                 310                 315
Leu Ile Thr Asn Thr Gly Arg Arg His Leu Gly Phe Glu Ala Thr
                320                 325                 330
Phe Phe Gln Leu Pro Lys Met Ser Ser Cys Gly Gly Val Leu Ser
                335                 340                 345
Asp Thr Gln Gly Thr Phe Ser Ser Pro Tyr Tyr Pro Gly His Tyr
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Pro Pro Asn Ile Asn Cys Thr Trp Asn Ile Lys Val Pro Asn Asn
                365                 370                 375
Arg Asn Val Lys Val Arg Phe Lys Leu Phe Tyr Leu Val Asp Pro
                380                 385                 390
Asn Val Pro Val Gly Ser Cys Thr Lys Asp Tyr Val Glu Ile Asn
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Gly Glu Lys Gly Ser Gly Glu Arg Ser Gln Phe Val Val Ser Ser
                410                 415                 420
Asn Ser Ser Lys Ile Thr Val His Phe His Ser Asp His Ser Tyr
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Thr Asp Thr Gly Phe Leu Ala Glu Tyr Leu Ser Tyr Asp Ser Asn
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Asp Pro Cys Pro Gly Met Phe Met Cys Lys Thr Gly Arg Cys Ile
                455                 460                 465
Arg Lys Glu Leu Arg Cys Asp Gly Trp Ala Asp Cys Pro Asp Tyr
                470                 475                 480
Ser Asp Glu Arg Tyr Cys Arg Cys Asn Ala Thr His Gln Phe Thr
                485                 490                 495
Cys Lys Asn Gln Phe Cys Lys Pro Leu Phe Trp Val Cys Asp Ser
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Val Asn Asp Cys Gly Asp Gly Ser Asp Glu Glu Gly Cys Ser Cys
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Pro Ala Gly Ser Phe Lys Cys Ser Asn Gly Lys Cys Leu Pro Gln
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Thr Tyr Arg Cys Gln Asn Gly Leu Cys Leu Ser Lys Gly Asn Pro
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Glu Cys Asp Gly Lys Thr Asp Cys Ser Asp Gly Ser Asp Glu Lys
                590                 595                 600
Asn Cys Asp Cys Gly Leu Arg Ser Phe Thr Lys Gln Ala Arg Val
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Asp Lys Asn Phe Lys Tyr Ser Asp Tyr Thr Met Trp Thr Ala Phe
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Leu Gly Leu Leu Asp Gln Ser Lys Arg Ser Ala Ser Gly Val Gln
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Glu Leu Lys Leu Lys Arg Ile Ile Thr His Pro Ser Phe Asn Asp
                695                 700                 705
Phe Thr Phe Asp Tyr Asp Ile Ala Leu Leu Glu Leu Glu Lys Ser
                710                 715                 720
Val Glu Tyr Ser Thr Val Val Arg Pro Ile Cys Leu Pro Asp Ala
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Thr His Val Phe Pro Ala Gly Lys Ala Ile Trp Val Thr Gly Trp
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Gly His Thr Lys Glu Gly Gly Thr Gly Ala Leu Ile Leu Gln Lys
                755                 760                 765
Gly Glu Ile Arg Val Ile Asn Gln Thr Thr Cys Glu Asp Leu Met
                770                 775                 780
Pro Gln Gln Ile Thr Pro Arg Met Met Cys Val Gly Phe Leu Ser
                785                 790                 795
Gly Gly Val Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu Ser
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Ser Ala Glu Lys Asp Gly Arg Met Phe Gln Ala Gly Val Val Ser
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Trp Gly Glu Gly Cys Ala Gln Arg Asn Lys Pro Gly Val Tyr Thr
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Arg Leu Pro Cys Ser Ser Gly Leu Asp Gln Arg Ala His Trp Gly
                845                 850                 855
Ile Ala Ala Trp Thr Asp Ser Arg Pro Gln Thr Pro Thr Gly Met
                860                 865                 870
Pro Asp Met His Thr Trp Ile Gln Glu Arg Asn Thr Asp Asp Ile
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<221> n=Inosine
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<210> 12
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<221> n=Inosine
<222> 3, 6, 9, 12, 18
<223> Degenerate oligonucleotide primer

<400> 12
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<210> 13
<211> 12
<212> PRT
<213> *Homo sapiens*

<220>

<223> Fragment of TADG-15

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<210> 14
<211> 20
<212> DNA
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<220>

<223> TADG-15 forward oligonucleotide primer

<400> 14
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<210> 15
<211> 20
<212> DNA
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<220>

<223> TADG-15 reverse oligonucleotide primer

<400> 15

gaaggtgaag tcattgaaga 20

<210> 16
<211> 20
<212> DNA
<213> Artificial sequence

<220>

<223> β-tubulin forward oligonucleotide primer

<400> 16
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<210> 17
<211> 20
<212> DNA
<213> Artificial sequence

<220>

<223> β-tubulin reverse oligonucleotide primer

<400> 17
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<210> 18
<211> 3147
<212> RNA
<213> Artificial sequence

<220>

<223> Antisense of TADG-15

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gcguggccca agggccccac agcccagauc cggcagcccc accaccuuca 200
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cugugucuuc aaaccuuugc ccccaguugg gucaguagaa ccaccagugu 350
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uuuucuaggc agauuuggag cccuggagau ugaguucaca guguauguuc 450
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<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 68-76 of the TADG-15 protein

<400> 19
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<210> 20
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 126-134 of the TADG-15 protein

<400> 20
Leu Leu Tyr Ser Gly Val Pro Phe Leu
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<210> 21
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 644-652 of the TADG-15 protein

<400> 21
Ser Leu Ile Ser Pro Asn Trp Leu Val
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<210> 22
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 379-387 of the TADG-15 protein

<400> 22
Lys Val Ser Phe Lys Phe Phe Tyr Leu
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<210> 23
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 386-394 of the TADG-15 protein

<400> 23
Tyr Leu Leu Glu Pro Gly Val Pro Ala
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<210> 24
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<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 257-265 of the TADG-15 protein

<400> 24
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<210> 25
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 762-770 of the TADG-15 protein

<400> 25
Ile Leu Gln Lys Gly Glu Ile Arg Val
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<210> 26
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 841-849 of the TADG-15 protein

<400> 26
Arg Leu Pro Leu Phe Arg Asp Trp Ile
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<210> 27
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 64-72 of the TADG-15 protein

<400> 27
Gly Leu Leu Leu Val Leu Leu Gly Ile
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<210> 28
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 57-65 of the TADG-15 protein

<400> 28
Val Leu Ala Ala Val Leu Ile Gly Leu
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<210> 29
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 67-75 of the TADG-15 protein

<400> 29
Leu Val Leu Leu Gly Ile Gly Phe Leu
5

<210> 30
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 379-387 of the TADG-15 protein

<400> 30
Lys Val Ser Phe Lys Phe Phe Tyr Leu
5

<210> 31
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 126-134 of the TADG-15 protein

<400> 31
Leu Leu Tyr Ser Gly Val Pro Phe Leu
5

<210> 32
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 88-96 of the TADG-15 protein

<400> 32
Lys Val Phe Asn Gly Tyr Met Arg Ile
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<210> 33
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 670-678 of the TADG-15 protein

<400> 33
Thr Gln Trp Thr Ala Phe Leu Gly Leu
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<210> 34
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 119-127 of the TADG-15 protein

<400> 34
Lys Val Lys Asp Ala Leu Lys Leu Leu
5

<210> 35
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 60-68 of the TADG-15 protein

<400> 35
Ala Val Leu Ile Gly Leu Leu Leu Val
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<210> 36
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 62-70 of the TADG-15 protein

<400> 36
Leu Ile Gly Leu Leu Leu Val Leu Leu
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<210> 37
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 57-65 of the TADG-15 protein

<400> 37
Val Leu Ala Ala Val Leu Ile Gly Leu
5

<210> 38
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 61-69 of the TADG-15 protein

<400> 38
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5

<210> 39
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 146-154 of the TADG-15 protein

<400> 39
Phe Ser Glu Gly Ser Val Ile Ala Tyr
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<210> 40
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 658-666 of the TADG-15 protein

<400> 40
Tyr Ile Asp Asp Arg Gly Phe Arg Tyr
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<210> 41
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 449-457 of the TADG-15 protein

<400> 41
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<210> 42
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 401-409 of the TADG-15 protein

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Tyr Val Glu Ile Asn Gly Glu Lys Tyr
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<210> 43
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 387-395 of the TADG-15 protein

<400> 43
Leu Leu Glu Pro Gly Val Pro Ala Gly
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<210> 44
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 553-561 of the TADG-15 protein

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Gly Ser Asp Glu Ala Ser Cys Pro Lys
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<210> 45
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 97-105 of the TADG-15 protein

<400> 45
Thr Asn Glu Asn Phe Val Asp Ala Tyr
5

<210> 46
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 110-118 of the TADG-15 protein

<400> 46
Ser Thr Glu Phe Val Ser Leu Ala Ser
5

<210> 47
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 811-819 of the TADG-15 protein

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Ser Val Glu Ala Asp Gly Arg Ile Phe
5

<210> 48
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 666-674 of the TADG-15 protein

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Tyr Ser Asp Pro Thr Gln Trp Thr Ala
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<210> 49
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 709-717 of the TADG-15 protein

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Asp Tyr Asp Ile Ala Leu Leu Glu Leu
5

<210> 50
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 408-416 of the TADG-15 protein

<400> 50
Lys Tyr Cys Gly Glu Arg Ser Gln Phe
5

<210> 51
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 754-762 of the TADG-15 protein

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Gln Tyr Gly Gly Thr Gly Ala Leu Ile
5

<210> 52
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 153-161 of the TADG-15 protein

<400> 52
Ala Tyr Tyr Trp Ser Glu Phe Ser Ile
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<210> 53
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 722-730 of the TADG-15 protein

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Glu Tyr Ser Ser Met Val Arg Pro Ile
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<210> 54
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 326-334 of the TADG-15 protein

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Gly Phe Glu Ala Thr Phe Phe Gln Leu
5

<210> 55
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 304-312 of the TADG-15 protein

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Thr Phe His Ser Ser Gln Asn Val Leu
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<210> 56
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 707-715 of the TADG-15 protein

<400> 56
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<210> 57
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 21-29 of the TADG-15 protein

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Lys Tyr Asn Ser Arg His Glu Lys Val
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<210> 58
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 665-673 of the TADG-15 protein

<400> 58
Arg Tyr Ser Asp Pro Thr Gln Trp Thr
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<210> 59
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 686-694 of the TADG-15 protein

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Ala Pro Gly Val Gln Glu Arg Arg Leu
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<210> 60
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 12-20 of the TADG-15 protein

<400> 60
Gly Pro Lys Asp Phe Gly Ala Gly Leu
5

<210> 61
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 668-676 of the TADG-15 protein

<400> 61
Asp Pro Thr Gln Trp Thr Ala Phe Leu
5

<210> 62
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 461-469 of the TADG-15 protein

<400> 62
Thr Gly Arg Cys Ile Arg Lys Glu Leu
5

<210> 63
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 59-67 of the TADG-15 protein

<400> 63
Ala Ala Val Leu Ile Gly Leu Leu Leu
5

<210> 64
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 379-387 of the TADG-15 protein

<400> 64
Lys Val Ser Phe Lys Phe Phe Tyr Leu
5

<210> 65
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 119-127 of the TADG-15 protein

<400> 65
Lys Val Lys Asp Ala Leu Lys Leu Leu
5

<210> 66
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 780-788 of the TADG-15 protein

<400> 66
Leu Pro Gln Gln Ile Thr Pro Arg Met
5

<210> 67
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 67-75 of the TADG-15 protein

<400> 67
Leu Val Leu Leu Gly Ile Gly Phe Leu
5

<210> 68
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 283-291 of the TADG-15 protein

<400> 68
Ser Pro Met Glu Pro His Ala Leu Val
5

<210> 69
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 12-20 of the TADG-15 protein

<400> 69
Gly Pro Lys Asp Phe Gly Ala Gly Leu
5

<210> 70
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 257-265 of the TADG-15 protein

<400> 70
Ser Leu Thr Phe Arg Ser Phe Asp Leu
5

<210> 71
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 180-188 of the TADG-15 protein

<400> 71
Met Leu Pro Pro Arg Ala Arg Ser Leu
5

<210> 72
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 217-225 of the TADG-15 protein

<400> 72
Gly Leu His Ala Arg Gly Val Glu Leu
5

<210> 73
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 173-181 of the TADG-15 protein

<400> 73
Met Ala Glu Glu Arg Val Val Met Leu
5

<210> 74
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 267-275 of the TADG-15 protein

<400> 74
Ser Cys Asp Glu Arg Gly Ser Asp Leu
5

<210> 75
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 567-575 of the TADG-15 protein

<400> 75
Cys Thr Lys His Thr Tyr Arg Cys Leu
5

<210> 76
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 724-732 of the TADG-15 protein

<400> 76
Ser Ser Met Val Arg Pro Ile Cys Leu
5

<210> 77
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 409-417 of the TADG-15 protein

<400> 77
Tyr Cys Gly Glu Arg Ser Gln Phe Val
5

<210> 78
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 495-503 of the TADG-15 protein

<400> 78
Thr Cys Lys Asn Lys Phe Cys Lys Pro
5

<210> 79
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 427-435 of the TADG-15 protein

<400> 79
Val Arg Phe His Ser Asp Gln Ser Tyr
5

<210> 80
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 695-703 of the TADG-15 protein

<400> 80
Lys Arg Ile Ile Ser His Pro Phe Phe
5

<210> 81
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 664-672 of the TADG-15 protein

<400> 81
Phe Arg Tyr Ser Asp Pro Thr Gln Trp
5

<210> 82
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 220-228 of the TADG-15 protein

<400> 82
Ala Arg Gly Val Glu Leu Met Arg Phe
5

<210> 83
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 492-500 of the TADG-15 protein

<400> 83
His Gln Phe Thr Cys Lys Asn Lys Phe
5

<210> 84
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 53-61 of the TADG-15 protein

<400> 84
Gly Arg Trp Val Val Leu Ala Ala Val
5

<210> 85
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 248-256 of the TADG-15 protein

<400> 85
Leu Arg Gly Asp Ala Asp Ser Val Leu
5

<210> 86
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 572-580 of the TADG-15 protein

<400> 86
Tyr Arg Cys Leu Asn Gly Leu Cys Leu
5

<210> 87
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 692-700 of the TADG-15 protein

<400> 87
Arg Arg Leu Lys Arg Ile Ile Ser His
5

<210> 88
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 24-32 of the TADG-15 protein

<400> 88
Ser Arg His Glu Lys Val Asn Gly Leu
5

<210> 89
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 147-155 of the TADG-15 protein

<400> 89
Ser Glu Gly Ser Val Ile Ala Tyr Tyr
5

<210> 90
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 715-723 of the TADG-15 protein

<400> 90
Leu Glu Leu Glu Lys Pro Ala Glu Tyr
5

<210> 91
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 105-113 of the TADG-15 protein

<400> 91
Tyr Glu Asn Ser Asn Ser Thr Glu Phe
5

<210> 92
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 14-22 of the TADG-15 protein

<400> 92
Lys Asp Phe Gly Ala Gly Leu Lys Tyr
5

<210> 93
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 129-137 of the TADG-15 protein

<400> 93
Ser Gly Val Pro Phe Leu Gly Pro Tyr
5

<210> 94
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 436-444 of the TADG-15 protein

<400> 94
Thr Asp Thr Gly Phe Leu Ala Glu Tyr
5

<210> 95
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 766-774 of the TADG-15 protein

<400> 95
Gly Glu Ile Arg Val Ile Asn Gln Thr
5

<210> 96
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 402-410 of the TADG-15 protein

<400> 96
Val Glu Ile Asn Gly Glu Lys Tyr Cys
5

<210> 97
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 482-490 of the TADG-15 protein

<400> 97
Asp Glu Leu Asn Cys Ser Cys Asp Ala
5

<210> 98
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 82-90 of the TADG-15 protein

<400> 98
Arg Asp Val Arg Val Gln Lys Val Phe
5